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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-01-12-05** **Date: 13-01-18**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.
Agency	:	Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/183/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-18
Sample ID No	:	2018-01-12-05/01
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	12-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.391	512	609	19.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.612	528	628	20.0%	Satisfactory	Satisfactory

Note:

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Authorized Signatory
Quality Manager

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-22-03** **Date: 24/01/2018**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.

Agency : Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/183/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-18

Sample ID No : 2018-01-22-03/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/01/2018	24/01/2018	150.42 X 150.54 X 150.55	22644	8.315	396.3	17.5	17.4
2	M20 Concrete	M20	17/01/2018	24/01/2018	150.22 X 150.34 X 150.35	22584	8.301	388.4	17.2	
3	M20 Concrete	M20	17/01/2018	24/01/2018	150.32 X 150.44 X 150.45	22614	8.327	398.0	17.6	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-22-03** **Date: 14/02/2018**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.

Agency : Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/183/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-18

Sample ID No : 2018-01-22-03/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/01/2018	14/02/2018	150.42 X 150.54 X 150.55	22644	8.315	500.4	22.1	22.0
2	M20 Concrete	M20	17/01/2018	14/02/2018	150.22 X 150.34 X 150.35	22584	8.331	492.3	21.8	
3	M20 Concrete	M20	17/01/2018	14/02/2018	150.32 X 150.44 X 150.45	22614	8.327	497.5	22.0	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-01-22-03** **Date: 24/01/2018**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.
Agency	:	Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/183/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-03/03
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/01/2018	24/01/2018	150.42 X 150.54 X 150.55	22644	8.315	409.9	18.1	17.9
2	M20 Concrete	M20	17/01/2018	24/01/2018	150.22 X 150.34 X 150.35	22584	8.301	397.5	17.6	
3	M20 Concrete	M20	17/01/2018	24/01/2018	150.32 X 150.44 X 150.45	22614	8.327	404.8	17.9	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-22-03** **Date: 14/02/2018**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.

Agency : Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/183/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-18 22/01/2018

Sample ID No : 2018-01-22-03/04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/02/2018 15/2/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/01/2018	14/02/2018	150.42 X 150.54 X 150.55	22644	8.315	482.3	21.3	21.4
2	M20 Concrete	M20	17/01/2018	14/02/2018	150.22 X 150.34 X 150.35	22584	8.331	487.8	21.6	
3	M20 Concrete	M20	17/01/2018	14/02/2018	150.32 X 150.44 X 150.45	22614	8.327	479.4	21.2	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-22-03** **Date: 24/01/2018**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.

Agency : Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/183/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-18

Sample ID No : 2018-01-22-03/05

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/01/2018	24/01/2018	150.42 X 150.44 X 150.55	22629	8.345	416.4	18.4	18.0
2	M20 Concrete	M20	17/01/2018	24/01/2018	150.32 X 150.34 X 150.35	22599	8.331	409.0	18.1	
3	M20 Concrete	M20	17/01/2018	24/01/2018	150.32 X 150.34 X 150.45	22599	8.317	395.5	17.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-22-03** **Date: 14/02/2018**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.

Agency : Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/183/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-18

Sample ID No : 2018-01-22-03/06

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/01/2018	14/02/2018	150.32 X 150.34 X 150.55	22599	8.325	513.0	22.7	22.7
2	M20 Concrete	M20	17/01/2018	14/02/2018	150.32 X 150.34 X 150.45	22599	8.321	522.0	23.1	
3	M20 Concrete	M20	17/01/2018	14/02/2018	150.32 X 150.34 X 150.45	22599	8.316	506.2	22.4	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-22-03** **Date: 24/01/2018**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.

Agency : Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/183/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-18

Sample ID No : 2018-01-22-03/07

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/01/2018	24/01/2018	150.42 X 150.35 X 150.44	22616	8.325	409.3	18.1	18.1
2	M20 Concrete	M20	17/01/2018	24/01/2018	150.22 X 150.44 X 150.35	22599	8.301	402.3	17.8	
3	M20 Concrete	M20	17/01/2018	24/01/2018	150.42 X 150.44 X 150.45	22629	8.327	416.4	18.4	

Note:

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-22-03** **Date: 14/02/2018**

Customer : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.

Address : T.Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.

Agency : Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/183/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-01-18

Sample ID No : 2018-01-22-03/08

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	17/01/2018	14/02/2018	150.42 X 150.35 X 150.44	22616	8.325	515.6	22.8	22.5
2	M20 Concrete	M20	17/01/2018	14/02/2018	150.22 X 150.44 X 150.35	22599	8.301	504.0	22.3	
3	M20 Concrete	M20	17/01/2018	14/02/2018	150.42 X 150.44 X 150.45	22629	8.327	506.9	22.4	

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-01-12-05** **Date: 16-01-18**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.
Agency	:	Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/183/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-18
Sample ID No	:	2018-01-12-05/03
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	12/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.49	100.51	1.385	4475	75.8	16.9	15.8	19.7
2	Cover Slab-2	75.51	100.52	1.348	4477	81.3	18.2	16.9	21.1
3	Cover Slab-3	75.50	100.49	1.372	4476	79.4	17.7	16.5	20.6

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-01-12-05** **Date: 16-01-18**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains and Improvements to road at Grape Garden Main road T.Dasarahalli ward No.15.
Agency	:	Technical Manger(West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/183/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-01-18
Sample ID No	:	2018-01-12-05/03
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	12/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.03	165.48	2.968	7857	155.8	19.8	19.8	24.8
2	B	100.04	165.51	2.895	7859	142.9	18.2	18.2	22.7
3	C	100.02	165.49	2.945	7856	151.4	19.3	19.3	24.1

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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